



Chemline Z-8500

Polyurethane Compound

Description

Chemline Z-8500 is a clear polyurethane compound for use on decals, labels emblems and other decorated substrates. Also suitable for potting solar cells.

Processing

Chemline Z-8500 should be mixed thoroughly by a static mixer, or by hand, with a clean spatula in a clean disposable container such as a polypropylene beaker or plastic lined hot drink cup.

Storage

Both materials must be protected from moisture. Storage temperatures should be ambient. In storage, containers should be tightly closed since this material is moisture sensitive. Material should be warmed to 90-110°F prior to use. With proper storage practices, the shelf life of **Chemline Z-8500** is 6 months or more.

Safety

Chemline Z-8500 is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. Be sure to read SDS in its entirety prior to use.

Properties of Components

Property	Clear Polyol	Aliphatic Iso
Mixing Ratio (by volume)	1	1
Mixing Ratio (by weight)	1	1
Specific Gravity	1.10	1.10
Density lbs/gal	9.13	9.13
Viscosity @ 100 °F	450 ± 100 cps	140 ± 50cps
NCO Value	-	22.7% ± 0.5
Acid Value	Less than 0.75	-
Hydroxyl Value	280-290	-
Gel Time	4-6 minutes	
Cure Time	100-200°F (4-16 hours)	

Cured Elastomer Properties

Property	Value
Hardness, D-2240	Shore D 55-65 Shore A 90-95
Heat Aging	7 days at 185°F, no change
Humidity Resistance	7 days 100% RH @ 200°F, no change
Shrinkage on Cure	0.5% cured at RT 1% cured @ 167°F
Index of Refraction	1.475
Total Integrated Transmission	90%
UV Cutoff	360nm
Tensile Strength	3300-3500 psi
Elongation at Break	220-250%
Tear Strength	90-110 pli
100% Modulus	1400-1600 psi

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

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